AD/TD Joint Projects Meeting
Wednesday, 06 July 2005, 1:15 PM
Club 157, Trailer 157

Present: Jamie Blowers (scribe), Peter Garbincius, Dave Harding, Gregg Kobliska, John Zweibohmer

Review of Tasks and Priorities

OrBump #203

Measurements continue at IB1 to try and understand/minimize the field shape. The customer has reported that they can live with the current condition, but would prefer to have it improved if time allows. TD will continue to work towards improvement, but will proceed on further magnet assembly when the schedule dictates in order to make sure that the magnets are ready on time.

The girder assembly drawing is very close to being released.

Work continues on the stripline design.

TD is working up a cost estimate for the foil changer in preparation for procurement.

WQB #295

TD is targeting to have the first unit assembled by 15-Jul, and then it will be four weeks at IB1 for measurements. The second unit is right on the first unit's heels, and the third unit is coming along well.

Peter reported that these magnets came up in conversation during this past weekend's transformer change-out. It was recognized that a spare high-voltage power supply will be needed for when these magnets are installed.

The MI management would like to put four units in during the shutdown, and this is limited by the Lambertson bake-outs needed after spoiling the vacuum for installation.

Debuncher Kicker #225

TD has received 15 beam tubes (~40 were made, but our specification is pushing the limits of the vendors, and so only 15 were at least close to our specifications). Three are needed for shutdown-related work. About half of the 15 do not meet dimensional specification. TD will purchase more units.

2-m Solenoid #342

TD is "inching forward" on this job. The two units are both potted, and final assembly is proceeding. We hope to have one unit completed by the end of July.

LEP trims #274/351

All horizontal trims are completed. We are short on vertical cores (10 magnets worth). We can complete the vertical assembly using magnets which are removed during the shutdown.

Peter reported there may be some problem trims currently installed in the Recycler. Dave reported that, if needed, they can be replaced with the same style (i.e. previously reworked LEP coils) or with the new style. The new style would require changes in operational settings.

ILA #181

IB1 is getting ready to measure the second spare magnet. The two remaining coils are wound, both are wrapped with insulation, and one is in the potting fixture awaiting potting. All outer cores are stacked. Inner cores will be stacked when magnet assembly continues next fiscal year.

Tevatron dipole biopsy (suspect anchors) #302

TD still needs to identify a candidate magnet for disassembly. It is estimated that it will take a week for disassembly, and then three weeks to reassemble. It is expected that this work will begin after the shutdown.

Tevatron electrostatic separators #337/265

Two spares are complete. Four others are in some state of being worked on, with the goal of increasing the voltage limit. We do not yet know the work needs for FY06, but with the increased effort in SCRF, it is possible that the MP9 facility will be over-utilized next year.

P-bar pulsed dipole cores #360

Elvin Harms reports that they have adequate cores for now. For now we will begin work on these after WQB stacking is completed, but if the situation changes we will start work sooner.

Technician shortage

The Directorate made a verbal commitment to approve the requisitions for additional technicians. As of today, that has not yet happened.

Proton plan

The estimate for the Booster trim magnets (prototyping under job #291) is around $7M. The cap for an AIP is $5M (and this includes overhead and G&A). As such, the scope of work is being reviewed to see if the estimate can be reduced.

New requests

There are “rumblings” of SY120 possibly needing Main Ring quadrupole magnets for installation during the shutdown. TD does not think they can take on any refurbishment work for this shutdown, but if SY120 can install spares, then TD can replenish the spares pool after the shutdown.

Shutdown

At present October 1st is slated as a go/no-go date for D0. If D0 is ready to go by that date, then the Tevatron shutdown will begin October 31. If they are not ready, then the shutdown will be postponed. The start time and duration of non-Tevatron systems is still being negotiated.

If we have the shutdown in October 2005, then there will not be another planned shutdown until the end of FY06. If the extended shutdown does not occur in October, then a shorter shutdown is likely this year to allow for maintenance of the electrical distribution systems.

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